

Message

From: Ball, Joel [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=92AF2AB6F5274BC597249D04358EF25F-BALL, JOEL]
Sent: 12/10/2013 7:47:20 PM
To: Bill Eichbrecht [billeich8@aol.com]
Subject: RE: Vehicle Database
Attachments: 2013 common.pdf

I always act in a professional manner, especially when I go to a happy hour, I'll try to make the next one... If you need coefficients for F250 you can find it in the attached app in section 12.

Joel Ball
Light-Duty Vehicle Group
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(734) 214-4238
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From: Bill Eichbrecht [mailto:billeich8@aol.com]
Sent: Tuesday, December 10, 2013 1:23 PM
To: Ball, Joel
Subject: Re: Vehicle Database

Hi Joel,

Thanks for the information and the websites. Even though we are doing some chassis dyno work on HD engine applications, this gives us a close approximation for what we are doing. I did not see any F250 or heavier in the data. Since those are either medium duty or heavy duty, it may not have been included in the data.

Your email was so formal and professional. I am not used to that as you well know. I hope to see you at the next Keith party at Applebee's.

Bill Eichbrecht
billeich8@aol.com

-----Original Message-----

From: Ball, Joel <ball.joel@epa.gov>
To: Bill Eichbrecht <billeich8@aol.com>
Sent: Tue, Dec 10, 2013 9:42 am
Subject: RE: Vehicle Database

Hi Bill

This is the data from the Ford application for certification, It does not have the CD or frontal area but it does have the dyno coefficients. You can also use the following links to get the dyno coefficients from the EPA data base but this only contains data on the tested vehicles. Test car list(all fuel economy /CAFÉ tests) <http://www.epa.gov/otaq/tcldata.htm> and cert test data: <http://www.epa.gov/otaq/crttst.htm>

The EPA certification database does not contain frontal area or CD but I hope this info will help you.

ROADLOAD CERTIFICATION SPECIFICATIONS

Coverage Chart
HSEerosaline_chart.xls

Date
7/11/2011

RDM file
HSEerosalineRDMfile011.xls

2013 Erosaline

Version
43

Comments
Comments

Vehicle Description						Track Coefficients					
						3-Term		3-Term coeffs			
						HP@55	55-45 CDT	B	T	Y	
Body	Eng	Trans	Drive	Tire	ETW						
E130	AS	AS	RWD	LT 225 75R 16 AS	3200	22.1	24.67	38.16	0.0104	0.03441	
					5500	22.5	25.14	40.79	0.0330	0.03441	
					6000	23.1	26.04	44.04	0.0608	0.03441	
					6500	23.8	26.88	47.39	0.0930	0.03441	
					7000	24.5	27.89	50.54	0.0989	0.03441	
					7500	25.1	28.45	53.78	0.0738	0.03441	
					8000	25.9	28.88	56.90	0.7502	0.03523	
					8500	26.2	29.35	58.77	0.7661	0.03523	
				LT 245 75R 16 AS	6000	23.8	26.88	47.39	0.0930	0.03523	
					6500	24.5	27.89	50.54	0.0987	0.03523	
					7000	25.1	28.45	53.78	0.0738	0.03523	
					7500	25.9	28.88	56.90	0.7502	0.03523	
					8000	26.2	29.35	58.77	0.7661	0.03523	
					8500	26.9	29.87	61.14	0.8885	0.03523	
					9000	27.3	30.09	63.37	0.8787	0.03523	
					9500	27.9	30.57	66.16	0.8164	0.03607	
E130	AS	AS	RWD	LT 225 75R 16 AS	3200	22.1	24.67	38.16	0.0104	0.03607	
					5500	22.5	25.14	40.79	0.0330	0.03607	
					6000	23.1	26.04	44.04	0.0608	0.03607	
					6500	23.8	26.88	47.39	0.0930	0.03607	
					7000	24.5	27.89	50.54	0.0989	0.03607	
					7500	25.1	28.45	53.78	0.0738	0.03607	
					8000	25.9	28.88	56.90	0.7502	0.03752	
					8500	26.2	29.35	58.77	0.7661	0.03752	
				LT 245 75R 16 AS	6000	23.8	26.88	47.39	0.0930	0.03752	
					6500	24.5	27.89	50.54	0.0987	0.03752	
					7000	25.1	28.45	53.78	0.0738	0.03752	
					7500	25.9	28.88	56.90	0.7502	0.03752	
					8000	26.2	29.35	58.77	0.7661	0.03752	
					8500	26.9	29.87	61.14	0.8885	0.03752	
					9000	27.3	30.09	63.37	0.8787	0.03752	
					9500	27.9	30.57	66.16	0.8164	0.03752	
E130	5.4L	AS	RWD	LT 225 75R 16 AS	3200	22.1	24.67	38.16	0.0104	0.03759	
					5500	22.5	25.14	40.79	0.0330	0.03759	
					6000	23.1	26.04	44.04	0.0608	0.03759	
					6500	23.8	26.88	47.39	0.0930	0.03759	
					7000	24.5	27.89	50.54	0.0989	0.03759	
					7500	25.1	28.45	53.78	0.0738	0.03759	
					8000	25.9	28.88	56.90	0.7502	0.03759	
					8500	26.2	29.35	58.77	0.7661	0.03759	
				LT 245 75R 16 AS	6000	23.8	26.88	47.39	0.0930	0.03824	
					6500	24.5	27.89	50.54	0.0987	0.03824	
					7000	25.1	28.45	53.78	0.0738	0.03824	
					7500	25.9	28.88	56.90	0.7502	0.03824	
					8000	26.2	29.35	58.77	0.7661	0.03824	
					8500	26.9	29.87	61.14	0.8885	0.03824	
					9000	27.3	30.09	63.37	0.8787	0.03824	
					9500	27.9	30.57	66.16	0.8164	0.03824	
E130	6.0L/60L2	AS	RWD	LT 225 75R 16 AS	3200	22.1	24.67	38.16	0.0104	0.04026	
					5500	22.5	25.14	40.79	0.0330	0.04026	
					6000	23.1	26.04	44.04	0.0608	0.04026	
					6500	23.8	26.88	47.39	0.0930	0.04026	
					7000	24.5	27.89	50.54	0.0989	0.04026	
					7500	25.1	28.45	53.78	0.0738	0.04026	
					8000	25.9	28.88	56.90	1.0205	0.04026	
					8500	26.2	29.35	58.77	1.0103	0.04026	
				LT 245 75R 16 AS	6000	23.8	26.88	47.39	0.0930	0.04026	
					6500	24.5	27.89	50.54	0.0987	0.04026	
					7000	25.1	28.45	53.78	0.0738	0.04026	
					7500	25.9	28.88	56.90	0.7502	0.04026	
					8000	26.2	29.35	58.77	0.7661	0.04026	
					8500	26.9	29.87	61.14	0.8885	0.04026	
					9000	27.3	30.09	63.37	0.8787	0.04026	
					9500	27.9	30.57	66.16	0.8164	0.04026	

ROADLOAD CERTIFICATION SPECIFICATIONS

2013 Ecomline Incomplete

Coverage Chart
10Ecomline_chart.xlsDate
7/23/2011RDML8a
1999 Super Duty, IndirectVersion
41Comments
Category

Vehicle Description						Single Roll Settings				
Body	Eng	Trans	Drive	Tire	ETW	3-Term	R	F1	F2	
						HP@50	55-43 CDT	1st	2nd/3rd	4th/5th
E450 C/A 36.0 8"3	A2	A2	RWD	A2	7500	37.7	12.32	79.89	0.7912	0.04730
					8000	38.3	12.91	81.07	0.8154	0.04730
					8500	39.0	13.49	82.25	0.8396	0.04730
					9000	39.6	14.07	83.43	0.8637	0.04730
					9500	40.3	14.66	84.61	0.8878	0.04730
					10000	40.9	15.11	85.79	0.9118	0.04730
					10500	41.6	15.62	86.98	0.9357	0.04730
					11000	42.2	16.11	88.16	0.9596	0.04730
					11500	42.8	16.59	89.35	0.9837	0.04730
					12000	43.5	17.05	90.53	1.0072	0.04730
					7500	38.4	7.94	126.89	0.7912	0.11274
					8000	39.1	8.37	128.66	0.8154	0.11274
E450 w/box 72.0 8"3	A2	A2	RWD	A2	8500	39.7	8.80	129.24	0.8396	0.11274
					9000	40.4	9.22	130.43	0.8637	0.11274
					9500	41.0	9.63	131.61	0.8878	0.11274
					10000	41.7	10.03	132.79	0.9118	0.11274
					10500	42.3	10.40	133.88	0.9357	0.11274
					11000	43.0	10.80	134.93	0.9596	0.11274
					11500	43.6	11.16	136.17	0.9837	0.11274
					12000	44.3	11.57	140.31	1.0072	0.11274
					7500	37.6	12.32	79.89	0.7912	0.01907
					8000	38.3	12.94	81.07	0.8154	0.01907
					8500	38.9	13.53	82.25	0.8396	0.01907
					9000	39.6	14.11	83.43	0.8637	0.01907
E250 Vulp Classic 49.0 8"3	A2	A2	RWD	A2	9500	38.1	13.36	81.58	0.9178	0.01907
					10000	38.8	13.90	82.76	0.9418	0.01907
					10500	39.5	14.42	83.94	0.9657	0.01907
					11000	40.2	14.93	85.12	0.9896	0.01907
					11500	40.8	15.40	86.31	1.0135	0.01907
					12000	41.4	15.89	87.50	1.0372	0.01907
					7500	46.0	9.43	71.07	0.6802	0.01442
					7500	46.6	9.87	71.78	0.7044	0.01442
					8000	47.1	10.31	72.49	0.7286	0.01442
					8500	47.7	10.74	73.21	0.7522	0.01442
					9000	48.3	11.17	73.93	0.7753	0.01442
					9500	48.7	11.56	74.65	0.8000	0.01442
E250 C/A w/Box 69.0 8"3	A2	A2	RWD	A2	10000	49.3	12.36	74.87	0.8261	0.01442
					10500	49.8	12.86	75.58	0.8507	0.01442
					11000	50.3	13.34	76.29	0.8753	0.01442
					11500	50.7	13.82	76.99	0.9000	0.01442
					12000	51.2	14.30	77.69	0.9244	0.01442
					8000	43.8	8.89	87.04	0.6414	0.06374
					8500	44.4	9.48	79.23	0.6738	0.06374
					9000	45.1	10.07	79.82	0.7062	0.06374
					9500	45.8	10.61	76.61	0.7444	0.06374
					10000	46.4	11.15	79.78	0.7787	0.06374
					10500	47.1	11.67	82.96	0.8128	0.06374
					11000	47.7	12.18	84.11	0.8470	0.06374
E250 C/A w/Box 34.5 8"3	4.6L	A2	RWD	A2	9500	46.4	12.68	89.29	0.8810	0.06374
					10000	47.0	13.16	91.47	0.9159	0.06374
					10500	47.7	13.63	93.60	0.9499	0.06374

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From: Bill Eichbrecht [<mailto:billeich8@aol.com>]
Sent: Monday, December 09, 2013 4:28 PM
To: Ball, Joel
Subject: Fwd: Vehicle Database

Hi Joel,

Missed you at the last get together at my favorite restaurant, Applebee's.

Would you know where we can find the information regarding vehicle coefficient of drag and frontal area to determine the chassis dyno coefficients? The vehicle in particular is the 2013MY Ford E450 6.8L 2v engine.

As always, your assistance in the matter will be greatly appreciated.

Bill Eichbrecht

billeich8@aol.com

-----Original Message-----

From: Fernandez, Antonio <fernandez.antonio@epa.gov>

To: Bill Eichbrecht <billeich8@aol.com>

Cc: Ball, Joel <ball.joel@epa.gov>

Sent: Mon, Dec 9, 2013 3:28 pm

Subject: RE: Vehicle Database

Try Joel Ball as I am not familiar with a drag coefficient/frontal area database EPA maintains.

What do you know about class 6/7/8 CNG applications like Cummins Westport?

Tony

From: Bill Eichbrecht [<mailto:billeich8@aol.com>]

Sent: Monday, December 09, 2013 3:19 PM

To: Fernandez, Antonio

Subject: Vehicle Database

Hi Tony,

I know this is not your area at EPA, but do you know where I can find the EPA database for coefficient of drag for Ford vehicles. I am trying to find this for the dyno settings. They are asking for the coefficient of drag and the frontal area? Getting information from Ford is like finding your buddy Krozak with messed up hair.

Any help will be appreciated.

Bill Eichbrecht

billeich8@aol.com